

**SMOOTH GLASS BASE PLATE AND ITS PRODUCTION (05-105486****Publication Number:** JP 5105486 A) , April 27, 1993**Inventors:**

- NAKAJIMA AKIRA
- KOMATSU MICHIO

**Applicants**

- CATALYSTS & CHEM IND CO LTD (A Japanese Company or Corporation), JP (Japan)

**Application Number:** 03-272944 (JP 91272944) , October 21, 1991**International Class (IPC Edition 5):**

- C03C-017/30
- C03C-017/34
- C08G-077/62
- C09D-183/16
- G02F-001/1333
- G09F-009/35
- H01B-005/14

**JAPIO Class:**

- 13.3 (INORGANIC CHEMISTRY--- Ceramics Industry)
- 14.2 (ORGANIC CHEMISTRY--- High Polymer Molecular Compounds)
- 14.7 (ORGANIC CHEMISTRY--- Coating Material Adhesives)
- 29.2 (PRECISION INSTRUMENTS--- Optical Equipment)
- 41.5 (MATERIALS--- Electric Wires & Cables)
- 44.9 (COMMUNICATION--- Other)

**JAPIO Keywords:**

- R011 (LIQUID CRYSTALS)

**Abstract:**

**PURPOSE:** To provide a glass base plate whose surface is smoothed by a silica- based dense film free from a void by using liquid containing polysilazane having a repeated unit shown in the specified general formula for coating liquid applied to the surface of the glass base plate.

**CONSTITUTION:** A glass base plate is coated with coating liquid containing at least one kind of polysilazane having a repeated unit shown in a general formula. In the formula, R(sub 1), R(sub 2) and R(sub 3) independently denote H or 1-8C alkyl. Then the obtained film is hardened by heating and/or irradiation of ultraviolet rays in the oxidative atmosphere to form a silica-cased film on the surface of the glass base plate. By this method, the smooth glass base plate is obtained whose surface is smoothed by the silica-based dense film free from a void, a pinhole and a crack or the like. A liquid crystal indicator almost free from color shade and irregular density is obtained by forming a

transparent conductive film on the silica-based film formed on this smooth glass base plate. (From: *Patent Abstracts of Japan*, Section: C, Section No. 1099, Vol. 17, No. 452, Pg. 99, August 19, 1993 )

JAPIO

© 2003 Japan Patent Information Organization. All rights reserved.

Dialog® File Number 347 Accession Number 4113786